

<u>SPECIFICATION NOTES:</u>

1. MAST CLIMBERS SHALL BE DRIVEN BY ELECTRIC MOTORS.

2. MAST CLIMBER PLATFORMS SHALL BE BRIDGED TOGETHER IN TWO TOWER CONFIGURATION.

3. MAST CLIMBERS SHALL HAVE A SYNCRONIZING / LEVELING MECHANISM BETWEEN THE TWO MOTORS IN TWO TOWER CONFIGURATION.

4. MAST CLIMBERS SHALL HAVE AN EMERGENCY DESCENT MECHANISM IN CASE LOSS OF POWER.

5. MAST CLIMBERS SHALL HAVE A VISIBLE & AUDIBLE ALARM WHILE IN MOTION.

6. MAST CLIMBERS SHALL BE AUTOMATICALLY STOPPED IF PLATFORMS BECOME UNEVEN DURING OPERATION IN TWO TOWER CONFIGURATION.

7. MAST CLIMBERS SHALL HAVE AN OVERLOAD SENSING DEVICE THAT WILL SHUT OFF THE MOTORS TO THE MAST CLIMBERS, IF MAXIMUM LOAD IS EXCEEDED.

8. MAST CLIMBERS SHALL HAVE SAFETY CONTROLS FOR THE UPPER AND LOWER LIMIT OF TRAVEL.

9. MAST CLIMBERS SHALL HAVE SAFETY FENCING AROUND THE MAST.

10. MAST CLIMBERS SHALL HAVE THE FUCTIONALITY OF BEING USED IN A SINGLE TOWER CONFIGURATION.

11. MAST CLIMBERS WHEN BRIDGED TOGETHER SHALL BE ABLE TO BE CONTROLLED FROM ONE LOCATION.

12. MAST CLIMBERS SHALL BE ABLE TO USE THE MAIN PLATFORM STRAIGHT EXTENSIONS FROM THE TWO TOWER CONFIGURATION IN A SINGLE TOWER CONFIGURATION.

13. VENDOR SHALL PROVIDE MAXIMUM SPAN LENGTH IN ONE TOWER CONFIGURATION.

14. MAST CLIMBERS SHALL BE ANCHORED TO CONCRETE FLOORING WITH VENDOR SUPPLIED HARDWARE.

15. MAST CLIMBERS SHALL NOT NEED LATERAL STABILIZATION ANY MORE FREQUENTLY THAN 24 FT.

16. VENDOR SHALL PROVIDE TRAINING FOR OPERATION AND ASSEMBLY OF MAST CLIMBERS. VENDOR

SHALL ALSO PROVIDE INSTRUCTOR TRAINING FOR OPERATION OF MAST CLIMBERS. 17. MAST CLIMBERS SHALL BE DESIGNED TO A SAFETY FACTOR OF 4 TO 1 AT MAXIMUM LOAD CONDITION.

18. MAST CLIMBER SHALL HAVE A MINIMUM LOAD CAPACITY OF 5000 LBS EVENLY DISTRIBUTED OVER PLATFORMS IN THE TWO

19. VENDOR SHALL PROVIDE LOAD CHARTS INCLUDING MAXIMUM LOAD CAPACITY FOR BOTH ONE AND TWO TOWER CONFIGURATIONS, AND ATTACH THE CHARTS AT OPERATION STATIONS.

TOWER CONFIGURATION, AND AT MAXIMUM SPAN LENGTH IN THE ONE TOWER CONFIGURATION.

20. VENDOR SHALL PROVIDE ENGINEERING DATA, INCLUDING DEFLECTION ANALYSIS AND STRESS ANALYSIS OF PLATFORM AND MAST AND LOADS AT THE MAST TIE OFF POINTS UNDER MAXIMUM LOAD CONDITION IN TWO TOWER CONFIGURATION.

21. REMOVABLE DECKING SHALL BE LEVEL WITH SECONDARY DECKING AND MAIN PLATFORM DECKING.

22. ALL SAFETY FENCES SHALL COMPLY WITH 29 CFR 1910.23 (e).

23. MAST CLIMBERS SHALL CONFORM TO ANSI/SIA A92.9.

24. MAST CLIMBERS SHALL HAVE HARD STOPS AT THE TOP AND BOTTOM OF TRAVEL, IN CASE OF LIMIT SWITCH FAILURE.

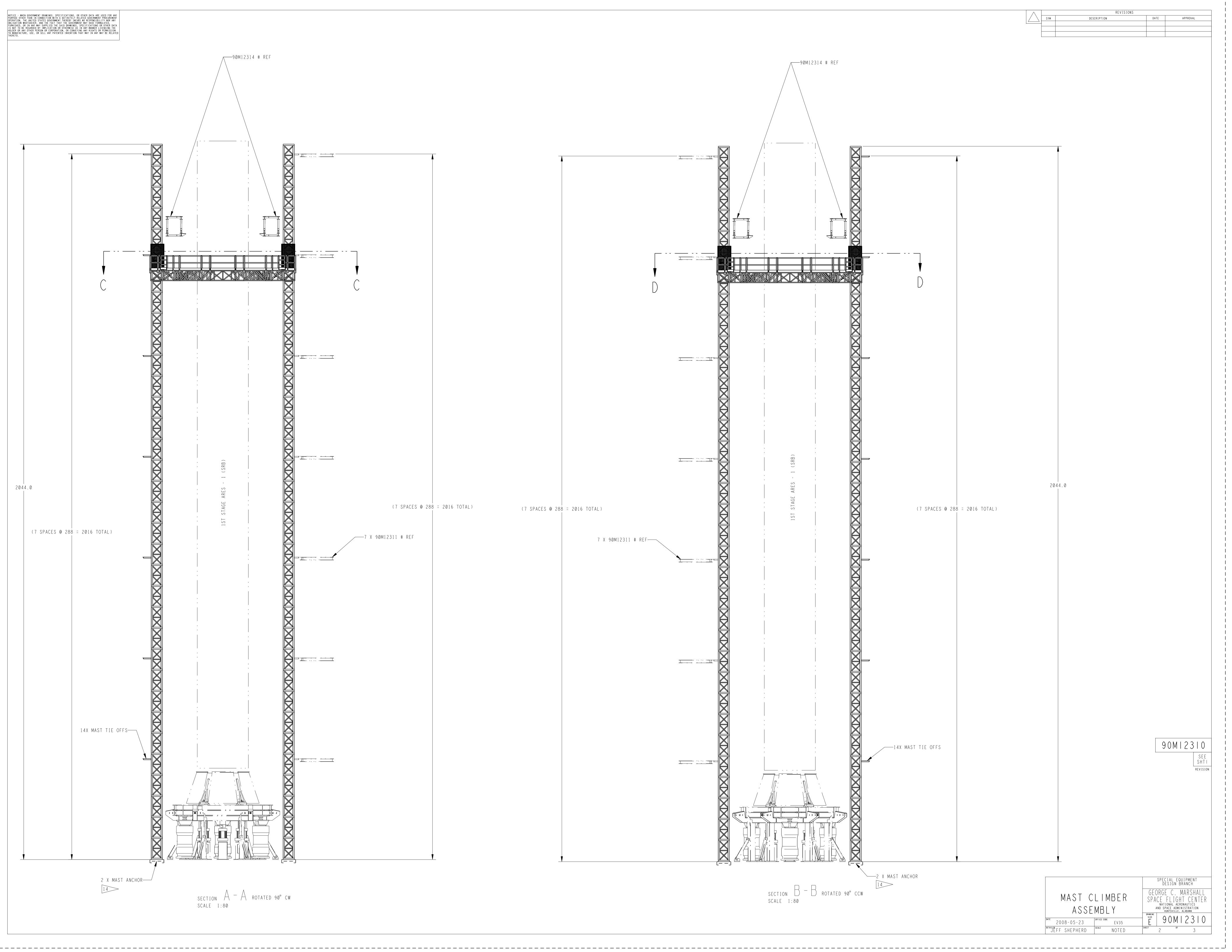
SPECIAL EQUIPMENT DESIGN BRANCH

UNLESS OTHERWISE SPECIFIED MAST CLIMBER DECIMALS SPACE FLIGHT CENTER

NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION
HUNTSVILLE, ALABAMA .X - ± - .06 .XX - ± - .03 $. XXX - \pm - .010$ DO NOT SCALE DRAWING

JEFF SHEPHERD | DATE | 2008-05-23 | EV35 BUILDING 4550 OR VIEW LETTER USED

NEXT ASSEMBLY



MAIN PLATFORM WITH ELECTRIC MOTOR. / (Ø 146.0) REMOVABLE DECKING WITH 6 INCH KICK PLATE, ALL AROUND. 6" REMOVABLE KICK PLATE ALL AROUND. SECONDARY PLATFORMING 98.35 TYP 42" SAFETY FENCING ALL AROUND. 22 134.35 TYP MAIN PLATFORM PIE EXTENSION TYPICAL MAIN PLATFORM STRAIGHT EXTENSION TYPICAL MAIN PLATFORM WITH ELECTRIC MOTOR.-SECTION C - C SEE SHEET 2 ROTATED 90° CCW SECTION D - D SEE SHEET 2 ROTATED 90° CW 2 TWO TOWER CONFIGURATION

SCALE 1:20

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REVISIONS
SYM DESCRIPTION DATE APPROVAL

MAST CLIMBER
ASSEMBLY

DATE 2008-05-23 OFFICE CODE EV35

DETAILER SHEPHERD

SPACE FLIGHT CENTER

NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION
HUNTSVILLE, ALABAMA

DRAWING
SIZE
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90M12310

SHEET 3

OF 3